

CLAIMS

1. A readily assembled and disassembled knock-down, self-supporting display unit that extends and retracts to accommodate and display banners or the like in a variety of sizes comprising:

- (a) a pair of adjustable telescoping mounting members comprising upper and lower mounting members for carrying opposite ends of a display banner, each of said mounting members further comprising at least two relatively movable telescoping members;
- (b) elongate flexible telescoping brace members, each of said brace members further comprising at least two relatively movable telescoping members for connecting to and spacing said pair of hollow tubular mounting rods and thereby maintaining a banner carried therebetween in tension, said brace members being designed to form an X pattern;
- (c) a releasable locking device associated with the telescoping members of each said mounting members and said brace members to lock the respective member at a desired length; and
- (d) a central member adapted to retain said telescoping brace members which form therewith an X-brace system.

2. The display unit of claim 1 wherein each of said mounting members further contains:

- (a) a pair of press fit end hubs having hub shank sections of reduced diameter with outer hub sections of a larger diameter such that the hub shanks are received in the end of said mounting members and said outer hubs protrude from the ends thereof;
- (b) said outer hub sections further containing recesses to receive end fittings associated with ends of said flexible hollow brace members; and
- (c) said outer hub sections further containing

connection devices adapted to receive snap fit connectors selected from the group consisting of in-line and hinged connectors for assembling multiple display units together.

5. 3. The display unit of claim 1 wherein said brace members comprise a plurality of slip fitting segments and further comprising terminal end fittings at the extreme of said segmented struts one of said terminal fittings being a pin connected by a resilient cord running between the
10 locking device and several segments to said one of said terminal fittings sequentially capturing said segments therebetween.

15. 4. The display unit of claim 3 wherein a remaining terminal pin of each of said brace members is a press fit hub.

5. 5. The display unit of claim 1 further comprising snap-together, brace-retaining central hub arrangement for retaining the X-brace members.

20. 6. The display unit of claim 1 further comprising removable snap-fit support base connected to the unit and forming with the lower mounting member a triangular support.

25. 7. The display unit of claim 6 further comprising removable snap-fit support base connected to the unit and forming with the lower mounting member a triangular support.

8. The display unit of claim 7 wherein said removable snap-fit support base includes a strut member snap fit to said snap-together, brace-retaining hub.

30. 9. The display unit of claim 2 wherein the hub and connectors are fabricated from a polyimide material.

10. The display unit of claim 1 further comprising a pair of spaced lower mounting members forming with said upper mounting member an A-frame construction.

35. 11. A readily assembled multi-unit, knock-down, self-supporting snap-fit display stand for displaying banners or the like comprising a plurality of display units assembled

consecutively, each said unit comprising:

- (a) an opposed pair of mounting members upper and lower mounting members for carrying opposite ends of a display banner, each tube having an end hub;
- 5 (b) elongate flexible brace members for connecting to a corresponding opposed pair of mounting members in each quadrilateral thereby maintaining the banner carried therebetween in tension, said brace members designed to form an X pattern;
- 10 (c) a releasable locking device associated with the telescoping members of each said mounting members and said brace members to lock the respective member at a desired length;
- 15 (d) integral locking recesses in said hubs for locking said structures together; and
- (e) snap fitting connector for removably connecting said ends together to form systems of a plurality of consecutive display units.

12. The display unit of claim 11 wherein said 20 plurality of display units are connected side-to-side to form a closed triangular structure.

13. The display unit of claim 11 wherein said 25 plurality of display stands are connected end to end using removable rotating connectors to capture consecutive mounting tube ends in side-by-side arrangement to form a closed polygon structure.

14. The multi-unit display stand of claim 11 further comprising at least one overhead unit that provides a closed booth appearance.

30 15. A readily assembled and disassembled knock-down, self-supporting display unit for carrying display banners or the like comprising:

- (a) a pair of mounting members for carrying opposite ends of a display;
- 35 (b) a central hub member having a plurality of elongated diverging recesses each for receiving an end of one of a plurality strut members which

form therewith an X-brace system and a central recess in said central hub member for receiving a snap-in connector; and

- 5 (c) pairs of elongate flexible brace members having ends adapted to be received in said central hub member and free ends for connecting to and spacing said mounting members and thereby maintaining a banner carried therebetween in tension.

10 16. A display unit as in claim 15 further comprising a leg fastening member having an elongate leg recess for receiving a stabilizing leg and having a snap-fit connector for removably connecting said leg pivoting member to said central recess in said central hub member and a stabilizing leg received in said pivot leg recess.

15 17. A display unit as in claim 16 wherein said stabilizing leg pivoting member and said central recess in said central hub member include mating protrusions and recesses which cooperate to provide a plurality of distinct fixed positions for said leg pivoting member to assume relative to said central hub member.

18. A display unit as in claim 16 wherein said stabilizing leg optionally has a plurality of segments.

20 19. A display unit as in claim 17 wherein said stabilizing leg optionally has a plurality of segments.

25 20. A display unit as in claim 15 further comprising a snap-in double ended connector having diverse connectors including a first connector received in said central recess of said central hub member and a second connector.

30 21. A display unit as in claim 20 further comprising a wall mounting device including an integral snap-in receptor for receiving the second connector of said double-ended connector thereby enabling the fastening of said display unit to a wall.

35 22. A display unit as in claim 21 wherein said wall mounting device further comprises openings for receiving wall mounting fasteners.

23. A display unit as in claim 20 wherein said second end of said double-ended connector is connected to a second central recess of a central hub member of a second display unit thereby enabling the back-to-back connection of a pair of said display units.

5 24. A display unit as in claim 17 wherein said distinct fixed positions for said leg pivoting member include positions which enable a banner to be mounted in a vertical or horizontal position.

10 25. A display unit as in claim 24 further comprising a plurality of stabilizing legs of different lengths to be used with said leg pivoting member to place a display in a desired position.

15 26. A display unit as in claim 15 wherein said brace members are telescoping members.

27. A display unit as in claim 16 wherein said stabilizing leg is a telescoping member.

20 28. A method of fastening a display unit to a fixed member selected from floors, walls and ceilings comprising steps of:

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- (a) providing a mounting device including one or more receptors for receiving a snap-fit connector carried by a display unit;
 - (b) providing openings for receiving mounting fasteners; and
 - (c) snapping said snap-fit connector into one of said receptors.